

FIG. 1

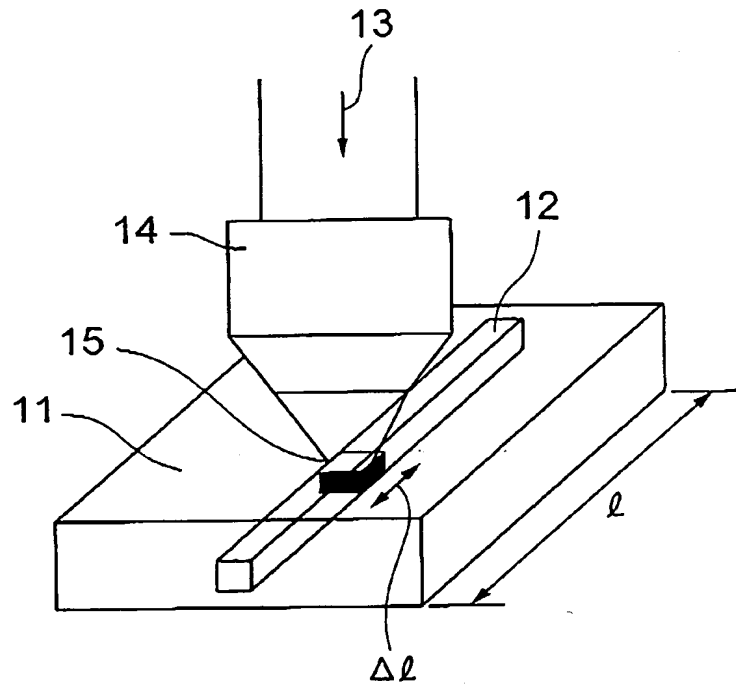


FIG. 2

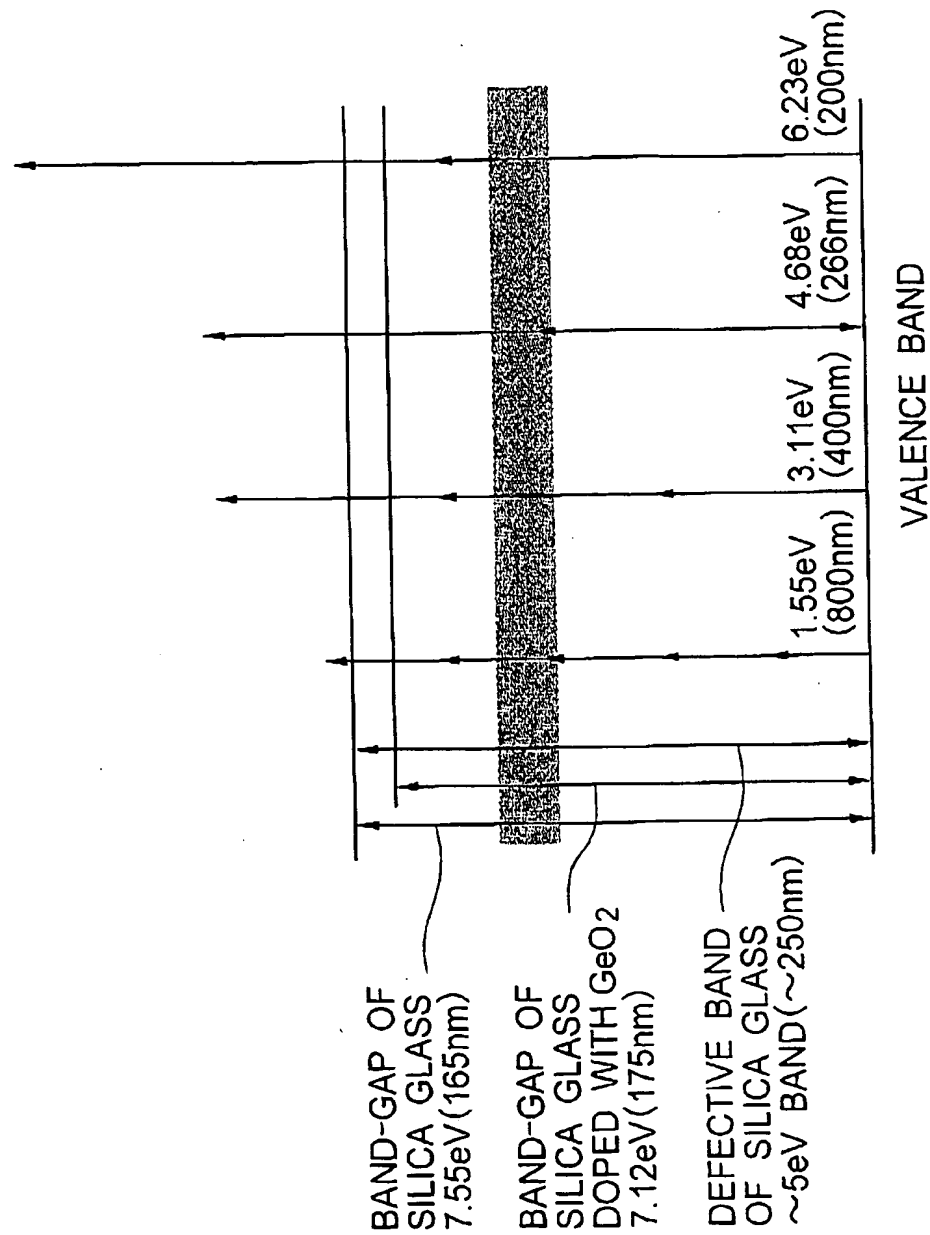


FIG. 3

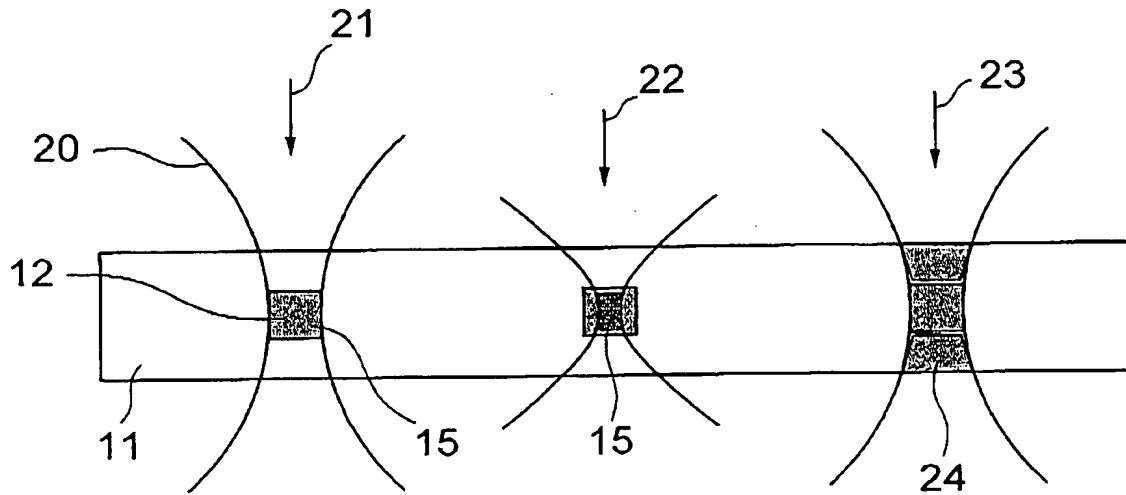


FIG. 4

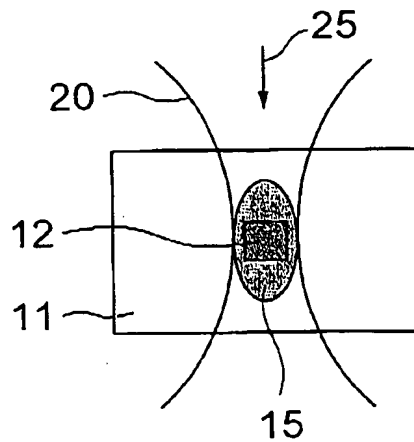


FIG. 5

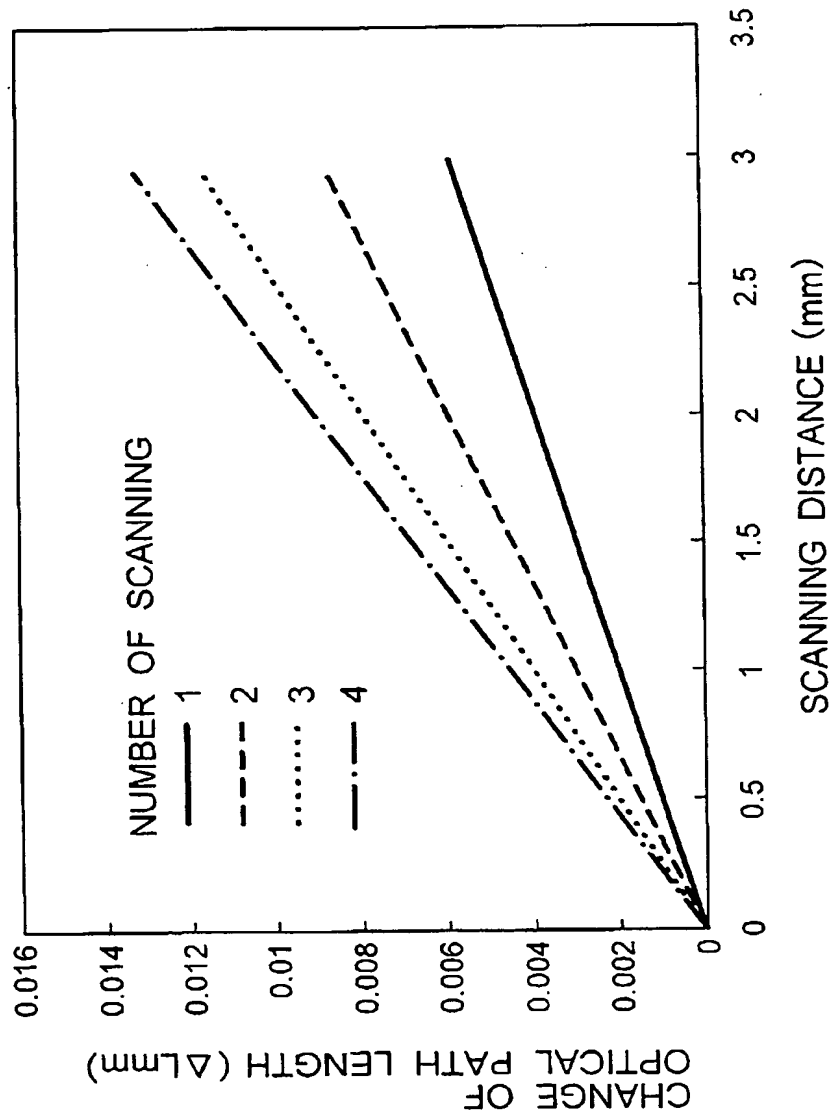


FIG. 6

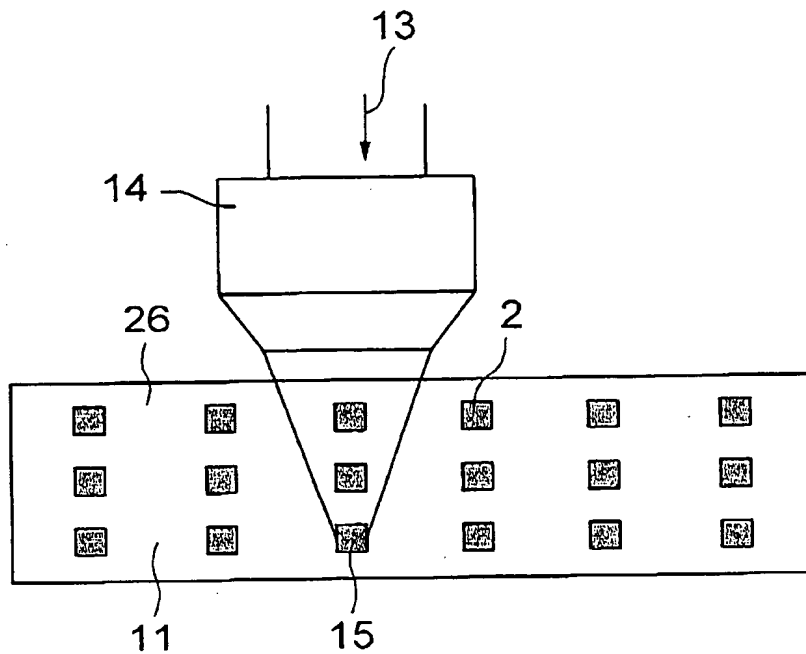


FIG. 7

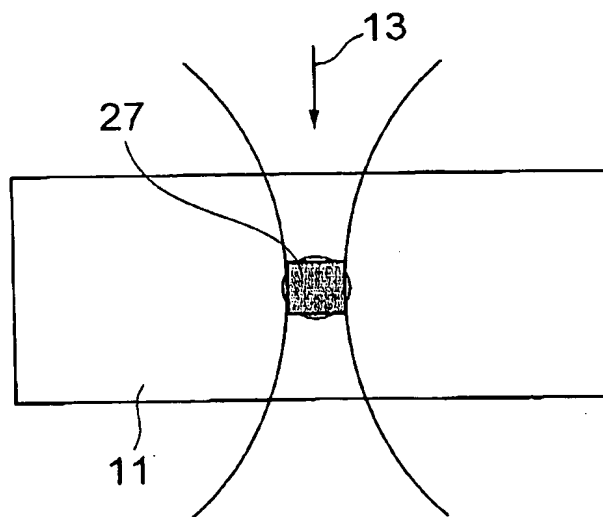


FIG. 8

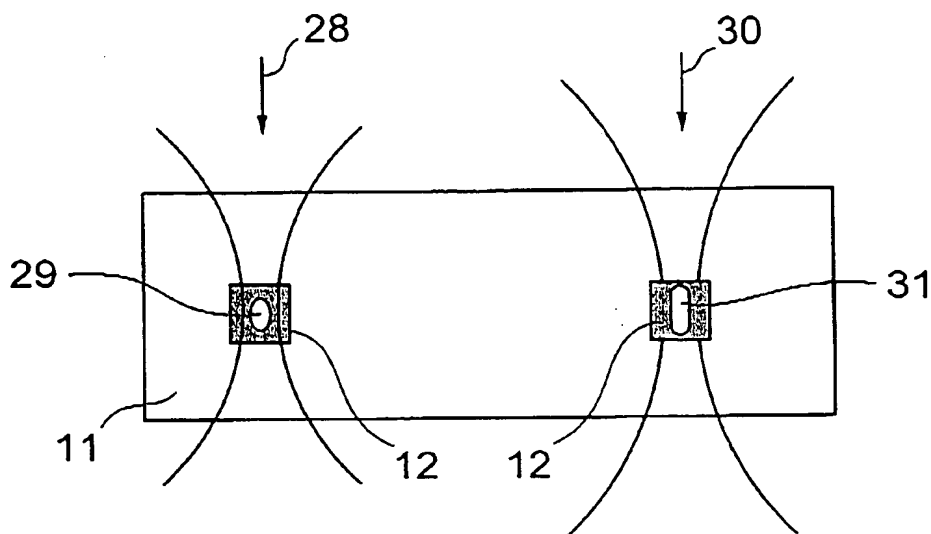


FIG. 9

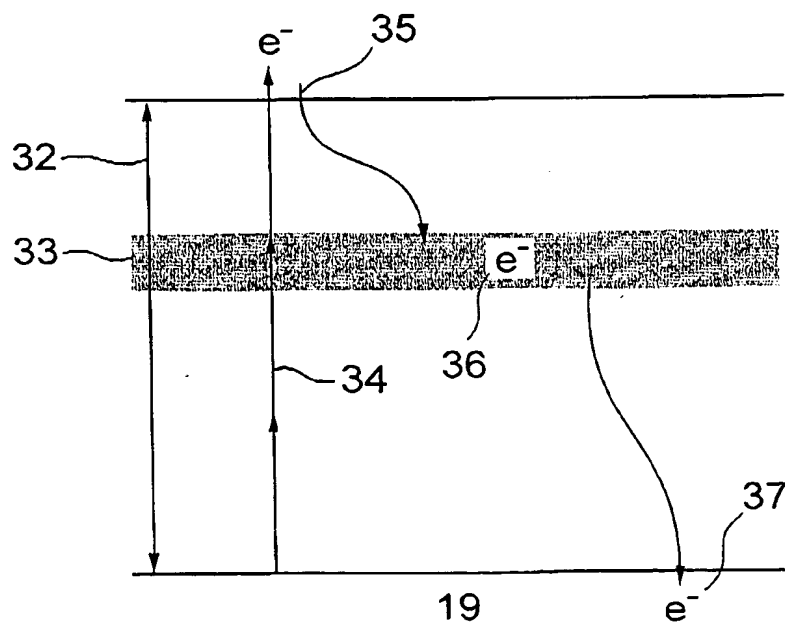


FIG. 10

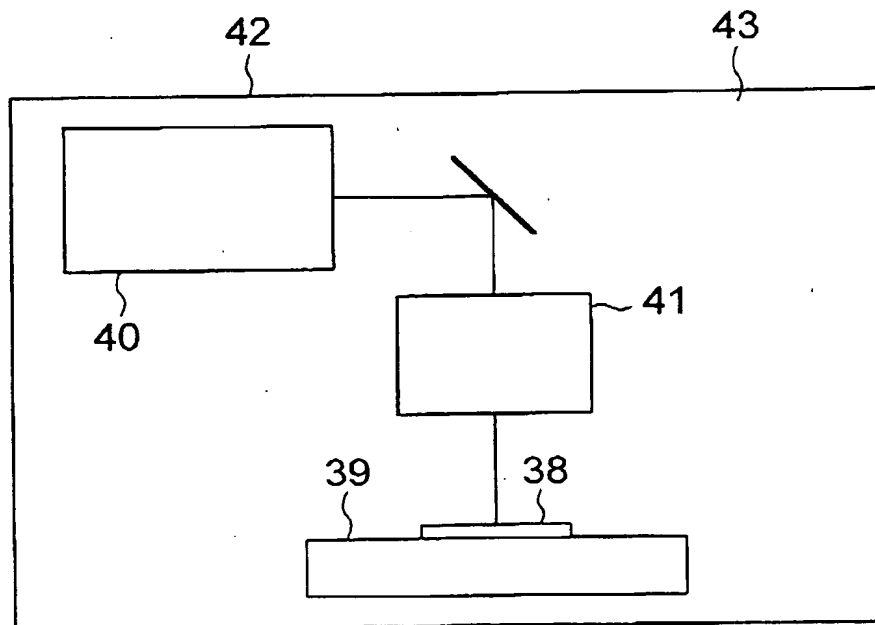


FIG. 11

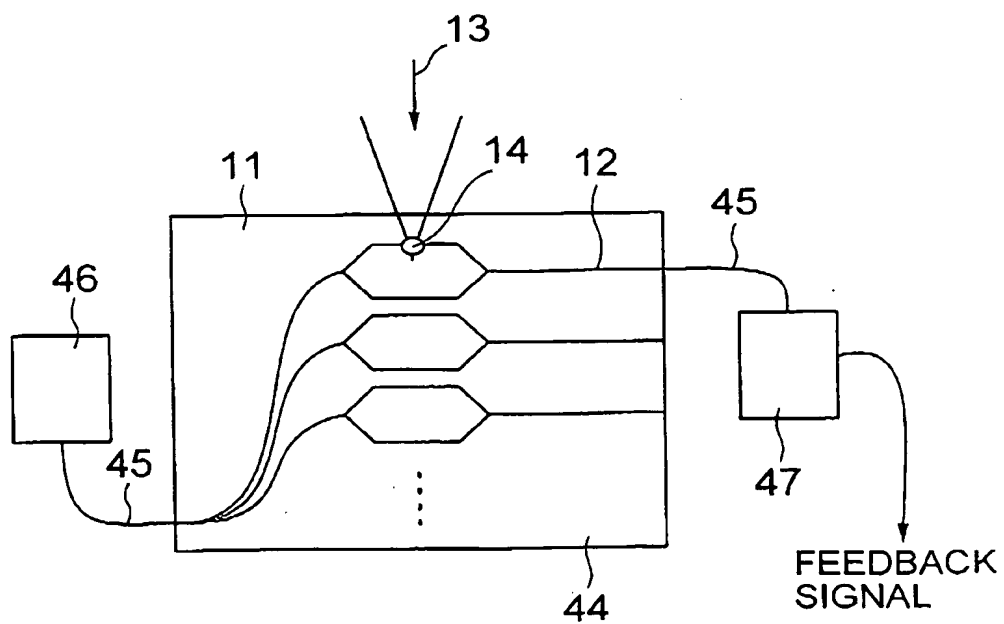


FIG. 12

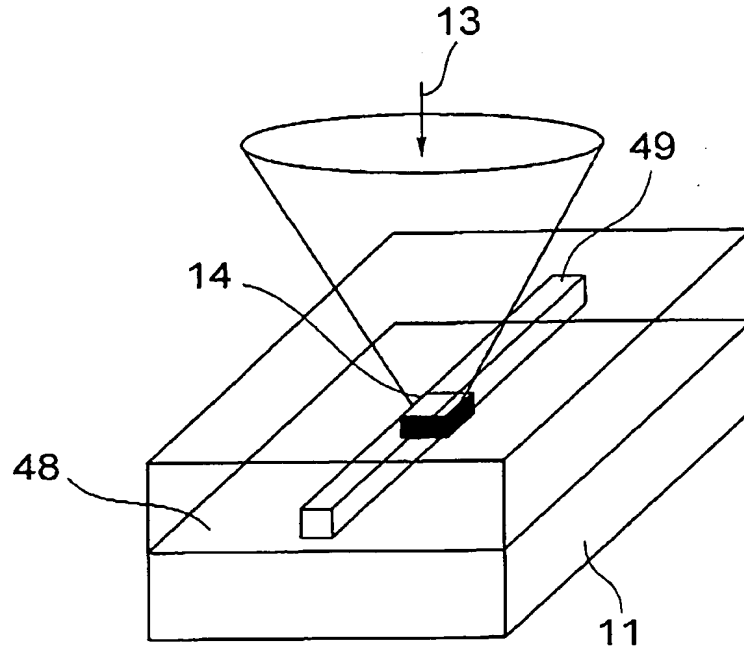


FIG. 13

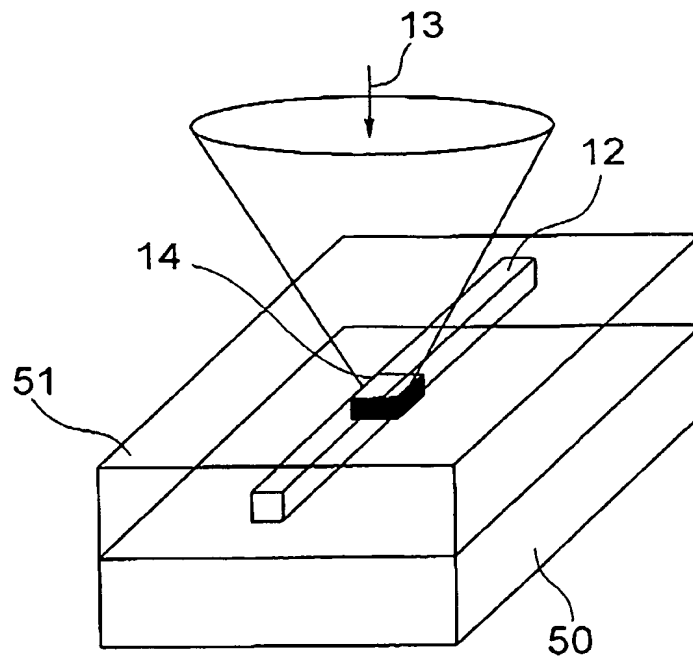


FIG. 14

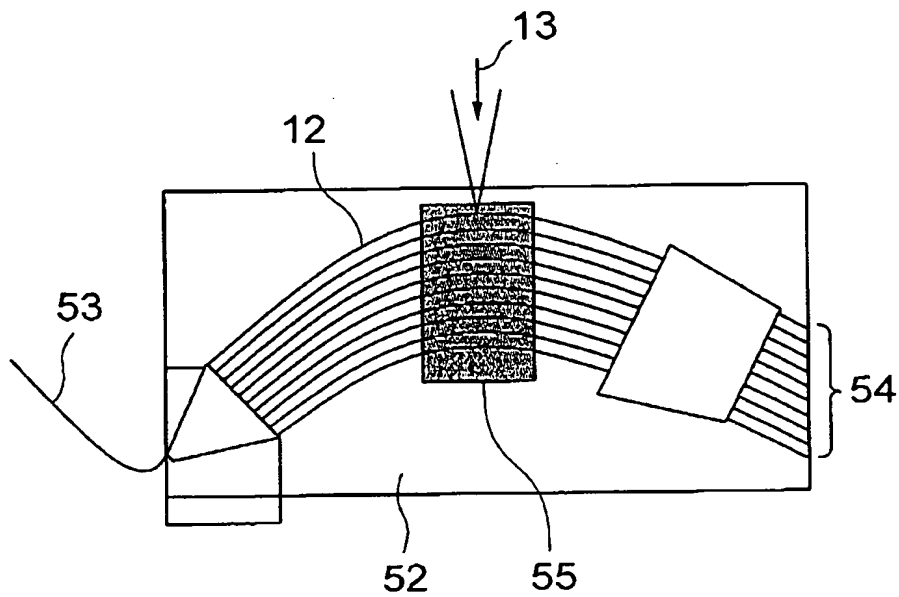
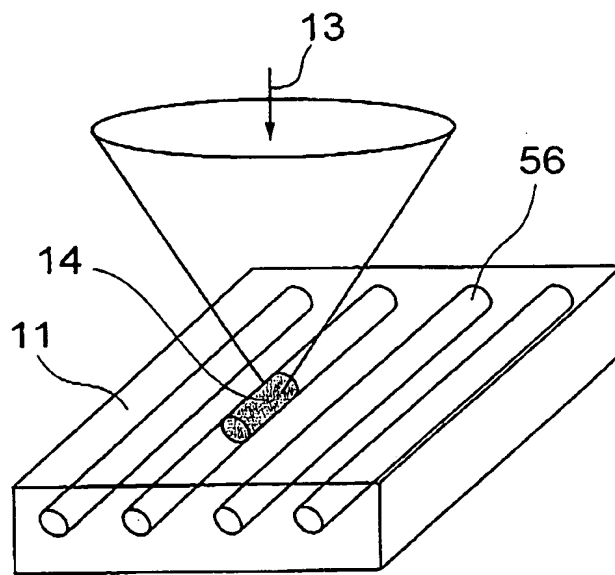


FIG. 15



A cross-sectional view of a scanning probe system. A probe tip, labeled 13, is shown scanning a surface. The surface is composed of a top layer 14 and a bottom layer 12. A scanning direction is indicated by an arrow labeled "SCANNING". A cross-section of the probe tip is labeled 51. A cross-section of the top layer is labeled 50. A cross-section of the bottom layer is labeled 57.

The diagram illustrates a photonic crystal slab waveguide. The top portion is a cross-sectional view showing a central waveguide region (shaded with a cross-hatch pattern) within a slab of thickness λ_1 . The waveguide has a width λ_2 . The surrounding material has a refractive index $\lambda_{1,2}$. The bottom portion is a 3D perspective view of the slab (labeled 12) containing a periodic array of rods (labeled 14) with a lattice constant d . The entire structure is labeled 58.

FIG. 18

